Agenda Item: **6**

Source: **CWTS**

To: **RAN#8**

Title: **Proposed WI " RF Radio Transmission/ Reception, System Performance Requirements and Conformance Testing "**

Document for: **Approval**

Work Item Description

Title

RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing

1   3GPP Work Area

X	Radio Access
	Core Network
	Services

2   Linked work items

> *Low chip Rate TDD physical layer*
> *Low Chip Rate TDD UE radio access capabilities*
> *Low chip rate TDD Layer 2 and Layer 3 protocol aspects*
> *Low chip rate TDD UTRAN architecture aspects*
> *Smart Antenna*

3   Justification

The integration of TDD low chip rate option in Release 2000 was discussed and approved in RAN#6. The work plan of the integration of low chip rate TDD in R00 was discussed in RAN#7. As a feature, the low chip rate TDD is sub-divided into several building blocks via the email discussion. For the low chip rate TDD, due to the difference on chip rate, the parameters for RF are affected like e.g. operation band width, mask, out of band emission, blocking, etc. This paper is to describe one of the low chip rate TDD building blocks - RF Radio Transmission/Reception, System Performance Requirements and Conformance Testing.

4   Objective

The technical objective of this work item is the description of the low chiprate TDD RF characters, the system performance requirements and conformance testing. And this work will affect the specifications for working group on RF character and other working group related to the system performance and conformance testing and the work on UE radio access capability.

− As a building block, it includes the following work task:
  − UE radio transmission and reception
  − BTS radio transmission and reception
  − BTS Conformance testing
  − BTS Electromagnetic compatibility
  − Requirements for support of Radio Resource Management

Task	Planned Start	Planned Finish
Create new TR on low chip rate TDD	01/2000	09/2000
RAN#9 decide whether new specification required	09/2000	09/2000
Drafting possible new specifications and CRs	09/2000	12/2000

5   Service Aspects

None

6 MMI-Aspects

None

7 Charging Aspects

None

8 Security Aspects

None

9 Impacts

Affects:	USIM	ME	AN	CN	Others
Yes		X	X		
No	X			X	X
Don't know					

10 Expected Output and Time scale (to be updated at each plenary)

New specifications						
Spec No.	Title	Prime rsp. WG	2ndary rsp. WG(s)	Presented for information at plenary#	Approved at plenary#	Comments
Affected existing specifications						
Spec No.	CR	Subject			Approved at plenary#	Comments
25.102		UE Radio Transmossion and Reception (TDD)			RAN#10	
25.105		BTS Radio Transmission and Reception (TDD)			RAN#10	
25.123		Requirements for support of Radio Resource Management (TDD)			RAN#10	
25.142		Base station conformance testing(TDD)			RAN#10	
25.942		RF system scenarios			RAN#10	
25.113		Base station EMC			RAN#10	

11 Work item raporteurs

Mr. Daijun Zhang (CATT/CWTS)

12 Work item leadership

RAN WG4

13 Supporting Companies
Ericsson, Fujitsu, IDC, LG, NTT DoCoMo, Panasonic, RFI, Samsung, Siemens

14 Classification of the WI (if known)

	Feature (go to 14a)	
X	Building Block (go to 14b)	
	Work Task (go to 14c)	

14a The WI is a Feature: List of building blocks under this feature

(list of Work Items identified as building blocks)

14b The WI is a Building Block: parent Feature

   Low chip rate TDD

14c The WI is a Work Task: parent Building Block

(one Work Item identified as a building block)